

(19) World Intellectual Property  
Organization  
International Bureau



557283

(43) International Publication Date  
13 January 2005 (13.01.2005)

PCT

(10) International Publication Number  
**WO 2005/002505 A2**

- (51) International Patent Classification<sup>7</sup>: **A61K**
- (21) International Application Number:  
PCT/US2004/016419
- (22) International Filing Date: 24 May 2004 (24.05.2004)
- (25) Filing Language: English
- (26) Publication Language: English
- (30) Priority Data:  
60/473,224 23 May 2003 (23.05.2003) US  
60/539,769 28 January 2004 (28.01.2004) US
- (71) Applicant: **JOHNS HOPKINS UNIVERSITY** [US/US];  
100 N. Charles Street, 5th Floor, Baltimore, MD 21201  
(US).
- (72) Inventors; and
- (75) Inventors/Applicants (*for US only*): **CHATTERJEE, Subroto, B.** [US/US]; 6098 Sebring Drive, Columbia, MD 21044 (US). **KWITEROWICH, Peter, O.** [US/US]; 408 Woodlawn Road, Baltimore, MD 21210 (US).
- (74) Agents: **ROSENFELD, Jennifer, K.** et al.; Edwards & Angell, LLP, P.O. Box 55874, Boston, MA 02205 (US).
- (81) Designated States (*unless otherwise indicated, for every kind of national protection available*): AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW.
- (84) Designated States (*unless otherwise indicated, for every kind of regional protection available*): ARIPO (BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).
- Published:**  
— *without international search report and to be republished upon receipt of that report*
- For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.*

(54) Title: **APOLIPOPROTEIN C-1 INDUCED APOPTOSIS**

(57) **Abstract:** The present invention provides methods and compositions for identifying compounds which inhibit ApoCI and which are useful in the treatment or prevention of atherosclerosis, plaque rupture, apoptosis, or myocardial infarction. The invention further provides methods for treating subjects suffering from or at risk of developing atherosclerosis, plaque rupture, apoptosis, or myocardial infarction. The invention further provides methods for diagnosing subjects at suffering from or at risk of developing treatment or prevention of atherosclerosis, plaque rupture, apoptosis, or myocardial infarction.

WO 2005/002505 A2